

Title	Emeritus Professor Sumio Sakka, Cover & Contents
Author(s)	
Citation	Bulletin of the Institute for Chemical Research, Kyoto University (1994), 72(2)
Issue Date	1994-10-31
URL	http://hdl.handle.net/2433/77578
Right	
Type	Others
Textversion	publisher

BULLETIN OF THE INSTITUTE FOR CHEMICAL RESEARCH

KYOTO UNIVERSITY

Vol. 72, No. 2

*Commemoration Issue Dedicated to
Professor Sumio Sakka
On the Occasion of His Retirement*

Published bi-monthly by
THE INSTITUTE FOR CHEMICAL RESEARCH
KYOTO UNIVERSITY
KYOTO, JAPAN

October 1994

(Bull. Inst. Chem. Res., Kyoto Univ.)

INSTITUTE FOR CHEMICAL RESEARCH KYOTO UNIVERSITY

Director

Takeaki MIYAMOTO

Members of Council

Yoshichika BANDO	Kaoru FUJI	Fumitaka HORII
Makoto INOUE	Keisuke KAJI	Minoru KANEHISA
Takashi KOBAYASHI	Shinzo KOHJIYA	Masakazu MATSUI
Takeaki MIYAMOTO	Takeshi MUKOYAMA	Masaru NAKAHARA
Akira NODA	Jun'ichi ODA	Atsuyoshi OHNO
Atsuhio OKA	Kunihiro OSAKI	Naoki SATO
Teruya SHINJO	Kenji SODA	Nobuyuki SUGITA
Yukio SUGIURA	Sho TAKAHASHI	Mikio TAKANO
Kouhei TAMAO	Kunihiro UEDA	Toshinobu YOKO

Publication Committee

Seishi MATSUKI	Toshinobu YOKO	Akio TOSHIMITSU
Takeshi MUKOYAMA	Shinzo KOHJIYA	

Business Staff

Misae HIRAMOTO	Zeniji IWATA	Kazuhiro YAMAZAKI
----------------	--------------	-------------------

History of Publications

Term	Vol.	Title	Published
Jan., 1929– Dec., 1947	1–16	化学研究所講演集 (The Reports of the Institute for Chemical Research)	Indeterminately
April, 1933	—	10 Jahre Institut für chemische Forschung (化学研究所創立十周年記念号)	—
March, 1949– Dec., 1949	17–19	化研講演集 (The Reports of the Institute for Chemical Research)	Indeterminately
March, 1950– Sept., 1952	20–30	化学研究所報告 (Bulletin of the Institute for Chemical Research)	Quarterly
Dec., 1951	—	The Commemoration Volume for the Silver Jubilee (化学研究所創立二十五周年記念号)	—
Jan., 1953 onwards	31 No. 1–	Bulletin of the Institute for Chemical Research (化学研究所報告)	Bi-monthly
Nov., 1966	44 No. 6	Special Issue on the Commemoration of the Fortieth Anniversary (化学研究所創立四十周年記念号)	—
Nov., 1976	54 No. 6	Special Issue on the Commemoration of the Fiftieth Anniversary (化学研究所創立五十周年記念号)	—



作 花 濟 夫 教 授

Professor Dr. Sumio Sakka

Emeritus Professor Sumio Sakka

On the 31st of March, 1994, Dr. Sumio Sakka retired from Kyoto University after 30 years of contribution to Kyoto University and was honored with the title of Emeritus Professor of Kyoto University on the following day.

Dr. Sakka was born in Osaka on the 11th of December, 1930. He graduated from the Department of Industrial Chemistry, Kyoto University in 1953. In 1953, he was appointed an instructor of the Institute for Chemical Research, Kyoto University under the supervision of Emeritus Professor Megumi Tashiro. He received a doctoral degree from Kyoto University in 1963. He was promoted to an associate professor of the Institute for Chemical Research, Kyoto University in 1963. On a leave of absence in 1965, he worked at Rensselaer Polytechnic Institute. During his 3-year stay in the U.S.A., Dr. Sakka gained further experience on the glass science, in cooperation with Professor J.D. Mackenzie.

In 1972, Dr. Sakka moved to the Faculty of Engineering, Mie University, as a full professor of the Laboratory of Inorganic Materials Science. In 1983, he again moved back to the Institute for Chemical Research, Kyoto University, as a full professor to direct the Laboratory of Ceramic Chemistry (now, Solid State Chemistry IV). At the Graduate School of Molecular Engineering, Kyoto University, he gave lectures on inorganic materials science and supervised dissertation research of graduate students.

From the 1st of April, 1990 to the 31st of March, 1992, Dr. Sakka was appointed Director of the institute and made great contributions not only to the Institute but also to the University as a councilor.

Dr. Sakka devoted himself to the Ceramic Society of Japan and officiated as Vice President of the Society for two years from May 1991. He was a regional editor of the international journal, *Journal of Non-Crystalline Solids*, from 1981 to 1992. He is now an editor-in-chief of the international journal, *Journal of Sol-Gel Science and Technology*, from 1992. He has also chaired a number of international conferences. Through these activities, he made a great contribution to the development of Glass Science and Sol-Gel Science in Japan and the international communication of research.

The sincere and warm personarity of Dr. Sakka has won him the respect of his friends, colleagues, and students. This collection of papers is dedicated to him to honor his long period of service on his retirement.

August, 1994



Takeaki Miyamoto
Director
Institute for Chemical Research
Kyoto University

CONTENTS

Rikuo Ota, Takasi Wakasugi, Yosiyuki Nozawa and Jiro Fukunaga : Amorphous-forming Regions of RF-Sputtered Films in the B_2O_3 - Na_2O System	95
Kanichi Kamiya, Masanori Wada, Masao Izumi, Jun Matsuoka and Hiroyuki Nasu : X-ray Diffraction Study on Medium-Range Structure and Thermal Change of Silica Gel Made from Triethoxysilane by Sol-Gel Method	105
Katsuhisa Tanaka, Iwao Yamaguchi, Kazuyuki Hirao and Naohiro Soga : Optical Properties of Transparent Glass-Ceramics Containing $ZnGa_2O_4:Cr^{3+}$ Microcrystals.....	124
Fumiaki Miyaji, Satoshi Fujimine, Toshinobu Yoko and Sumio Sakka : Some Physical Properties of $BiO_{1.5}$ - BaO - CuO Glasses.....	134
Takeshi Yao, Yoshio Murashita, Masakazu Kawashita, Tadashi Kokubo, Gikan H. Takaoka and Isao Yamada : Chemical Durability of P-Implanted Silica Glass for Radiotherapy.....	146
Akiyoshi Osaka, Yusuke Himei, Tokurou Nanba, and Yoshinari Miura : Chemical States of Fluorine in Fluoride and Oxyfluoride Glasses	153
Akihiko Nukui, Yutaka Shimizugawa, Shigeru Suehara, Satoru Inoue and Tomoharu Maeseto : Structural Study of TeO_2 - WO_3 Glasses by RDF and Raman Analyses	160
Shinobu Fujihara, Toshiyuki Nakata, Hiromitsu Kozuka and Sumio Sakka : Effects of Substitution of Sr, K or Na for Ba on the Structure and Properties of Gel-Derived $YBa_2Cu_4O_8$ Superconducting Oxide	167
Sae-Hoon Kim, Toshinobu Yoko and Sumio Sakka : Nonlinear Optical Properties of TeO_2 -Based Glasses : $RO-TeO_2$ ($R=Mg, Sr$ and Ba) Binary Glasses	178
Masaki Azuma, Zenji Hiroi and Mikio Takano : High Pressure Synthesis and Magnetic Properties of Quasi One Dimensional Systems $Sr_{n-1}Cu_{n+1}O_{2n}$ ($n=3, 5$)	187
Takeshi Mukoyama and Gábor Hock : L^2 Approximation of Atomic Continuum Wave Functions.....	195
Kazunari Yamaura, Zenji Hiroi and Mikio Takano : Synthesis of a New 92 K Superconductor $(Ca, Sr)_3Cu_2C_{0.75}O_y$ with a 4a-type Superstructure	202
Hiromitsu Kozuka, Gaoling Zhao and Sumio Sakka : Preparation of Ag/TiO_2 Composite Films by the Sol-Gel Method	209
Tomoaki Kamiyama, Naozumi Yoshida and Kenji Suzuki : A SAXS Characterization of Particle Aggregation in TiO_2 Sol-Gel System.....	225

Ivan Krakovský, Hiroshi Urakawa, Yuko Ikeda, Shinzo Kohjiya and Kanji Kajiwara : Structural Characteristics of Organic/Inorganic Hybrid Gels	231
--	-----

REVIEWS

Hideo Hosono, Hiroshi Kawazoe and Yoshihiro Abe : Information about Interaction of Implanted Ions with Amorphous Silica obtained from Structural Defects	242
Masayuki Yamane : Multicomponent Silicate Glasses from Gels.....	254
Motohiro Uo and Akio Makishima : Preparation and Properties of Porous Materials for Biotechnology by the Sol-Gel Process	266
Ryuji Sato, Takayuki Komatsu and Kazumasa Matusita : Thermal Stability and Microstructure of Bi-Sr-Ca-Cu-O Glasses	272
Yoshio Waseda and Kazumasa Sugiyama : Structural Characterization of Oxide Materials by the Anomalous X-ray Scattering Method	286
Tsutomu Minami : Development of New Glasses in the Solid State Ionics Field	305

Please return this form

**Received from the Library of Institute for Chemical Research, Kyoto University
the following Publication(s)**

“Bulletin of Institute for Chemical Research, Kyoto University.”
Vol. 72, No. 2 (1994) copy/copies

Institute:

Address:

Date:

Signature:

POST CARD

LIBRARY
INSTITUTE FOR CHEMICAL RESEARCH
KYOTO UNIVERSITY
Uji Kyoto-Fu
611 Japan

〒611 京都府宇治市五ヶ庄
京都大学
化学研究所図書室 行

京都大学化学研究所報告 第72巻第2号

平成6年10月21日 印刷

【非売品】

平成6年10月31日 発行

京都府宇治市五ヶ庄

京都大学化学研究所

編集兼発行人

宮 本 武 明

京都市上京区寺之内通小川西入

印刷所

山代印刷株式会社

電話(075)(441)8177(代表)

京都市上京区寺之内通小川西入

印刷者

山 代 能 之